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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/600,877		06/20/2003	Yongxin Wang	02-488	6680
719	7590	12/15/2005		EXAMINER	
CATERPIL		 -	HOGAN, JAMES SEAN		
100 N.E. AD PATENT DE		REET	ART UNIT	PAPER NUMBER	
PEORIA, IL	PEORIA, IL 616296490			3752	

DATE MAILED: 12/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Applic	cation No.	Applicant(s)	
Office Action Summary		00,877	WANG ET AL.	
		iner	Art Unit	-
	James	s S. Hogan	3752	_
The MAILING DATE of this com Period for Reply	munication appears on	the cover sheet with	h the correspondence address	
A SHORTENED STATUTORY PERIOD WHICHEVER IS LONGER, FROM THE Extensions of time may be available under the proafter SIX (6) MONTHS from the mailing date of this If NO period for reply is specified above, the maxin Failure to reply within the set or extended period for Any reply received by the Office later than three mearned patent term adjustment. See 37 CFR 1.70.	HE MAILING DATE OF visions of 37 CFR 1.136(a). In no communication. The statutory period will apply a per reply will, by statute, cause the conths after the mailing date of the	THIS COMMUNIC no event, however, may a re- nd will expire SIX (6) MONT e application to become ABA	ATION. ply be timely filed 'HS from the mailing date of this communication ANDONED (35 U.S.C. § 133).	
Status				
1) Responsive to communication (s) filed on <u>20 June 200</u>	<u>)3</u> .		
2a) ☐ This action is FINAL.	2b)⊠ This action	is non-final.		
3) Since this application is in cond		•	•	;
closed in accordance with the p	ractice under <i>Ex parte</i>	Quayle, 1935 C.D.	11, 453 O.G. 213.	
Disposition of Claims				
4) ⊠ Claim(s) 1-17 is/are pending in 4a) Of the above claim(s) 5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are rejected. 7) □ Claim(s) is/are objected 8) ⊠ Claim(s) 1-17 are subject to res	is/are withdrawn from			
Application Papers				
9) The specification is objected to 10) The drawing(s) filed on 20 June Applicant may not request that any Replacement drawing sheet(s) incl 11) The oath or declaration is object	2003 is/are: a)⊠ acc objection to the drawing uding the correction is re	(s) be held in abeyand quired if the drawing(s	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d	i).
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a call a) All b) Some * c) None 1. Certified copies of the pri	of: ority documents have ority documents have pies of the priority documents have priority documents of the priority documents or the priority docum	been received. been received in Ap uments have been r Rule 17.2(a)).	oplication No received in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Rev 3) Information Disclosure Statement(s) (PTO-14 Paper No(s)/Mail Date		Paper No(s)	ummary (PTO-413) //Mail Date formal Patent Application (PTO-152) 	

DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1-11, drawn to a fuel injector apparatus, classified in class 239, subclass 533.2.
 - II. Claims 12 and 13, drawn to a method of operating a fuel injector, classified in class 239, subclass 533.15
 - III. Claims 14-17, drawn to a method of operating a fuel injector, classified in class 239, subclass 533.9.

The inventions are distinct, each from the other because of the following reasons:

Inventions II and I are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case the process can be practiced by a fuel injector that does not have a lo pressure drain connected to the check control cavity.

Inventions III and I are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP §

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806.05(e)). In this case by a fuel injector that does not have a low-pressure drain connected to the check control cavity.

Inventions II and III are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions the methods of using an apparatus are different functions, with invention III including the limitation of moving the control valve from its second position back to a first position, thereby allowing fuel to flow after its initial blocking.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

This application contains claims directed to the following patentably distinct species of the claimed invention: Species A; Figure 2, Species B; Figure 3 and Species C, Figure 4.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claim 1 is generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim

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is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

A telephone call was made to Byron G. Buck II (Reg. No. 40,537) on December 5, 2005 to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim

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remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James S. Hogan whose telephone number is (571) 272-4902. The examiner can normally be reached on Mon-Fri, 7:00a-4:00p EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Scherbel can be reached on (571) 272-4919. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JSH 12/5/05

David A. Scherbel
Supervisory Patent Examiner
Group 3700